

WHAT IS CLAIMED IS:

1. A miniature monopole antenna for dual-frequency printed circuit board, comprising:
 - a dielectric printed wire board;
 - 5 a printed wire, being printed on one side of said dielectric printed wire board and one of its ends serving as a signal feed terminal;
 - a metal grounding surface, being printed on another side of said dielectric printed wire board at a position corresponding to said printed wire;
 - 10 two radiators, of which one being extended from one end of said printed wire at a position other than the corresponding metal grounding surface, and being bent into approximately 90 degrees after being extended to a predetermined length in the direction away from the metal grounding surface to form a radiator of the predetermined length, and then extended along the direction parallel to said radiator and bent into approximately 90 degrees and being extended to another
 - 15 predetermined length along the direction parallel to said radiator and bent to approximately 90 degrees and then being extended to a corresponding position on another end of said printed wire to define another radiator.
2. The miniature monopole antenna for dual-frequency printed circuit board of claim 1, wherein said two radiators are substantially equal in length.
- 20 3. The miniature monopole antenna for dual-frequency printed circuit board of claim 1, wherein said two radiators are parallel to each other, and maintain a predetermined distance apart, and said distance is not larger than 1.5 times of the width of the printed wire and not less than 0.5 times of the width of the printed wire.
- 25 4. The miniature monopole antenna for dual-frequency printed circuit board of claim 1, wherein said metal grounding surface keeps its edge along the direction horizontal to said radiators and an appropriate distance between the bending position where said two radiators being connected, and said distance falls in the range of 40%~60% of the length of said each radiator.

5. The miniature monopole antenna for dual-frequency printed circuit board of claim 1, wherein said radiator proximate said metal grounding surface keeps its external edge at a predetermined distance from the corresponding edge of said metal grounding surface, and the range of said distance is not larger than 5.5 times of the width W of said printed wire and not less than 2 times of the width W of said printed wire.
6. The miniature monopole antenna for dual-frequency printed circuit board of claims 1, wherein said monopole antenna has a length extending from the printed wire at a position other than the metal grounding surface to the free end of another radiator through the radiator approximately equal to one quarter of the desired dual-frequency mid/low resonance wavelength.